

COMPARISON OF THE GAS NRA/ROFA GENOMIC REGIONS

	10	20	30	40	50	60	70	80	90	100	110	120
Nra	MPVVKKKDSFLVETYLEQSI	RDKSELVLLLFKSP	TIIFSHVAKQTGLTAVQLK	YKYCKELDDFFGNLDIT	TKKGII	CCFVKPVKEFYLH	QYDTSTILKLLVFFIK	NGTSSQPLIKFS				
Rofa	-----i.K...S..ES.CQ.v.F..tSYlP	ite.EK...F1.NH.E..NA..PDS.Sm..Q.RM.S.Q.TH.F.T.Y...As.Nv.Q..A.L...sh.R..TD.a										
Nra	KYFLSSSSAYRLRESLIKLLREFGLRV	SKNTIVGEEYRIRVILI	AMYSKFGIVYPLDHL	DNQIYRFLSQSATN	RTSPWLEEPFSFYNNLL	ALSWKRHQFAVSIPQ	TRIFRQLKKLF					
Rofa	rSH..N....m..a..P..N.E.k1...K.....l.....kv.D.TQQ.KnT.HS...H.s.H.k.....S.S....Di.....s.t.....Q.....											
Nra	IYDCLTRSSRQVIENAFSLTF	SQGLDYLFLIYITNNSFASLQ	WTPQHIEFCCHIFEN	DFRLLEPILKRLPQIN	HSKQDLIKALMYFSK	SFLNLQHFVIEIP	SFSLPTVTGNSNL					
Rofa	...S.Kk...Di...TYCQ.N.A....y....a.....E.RQ.Q1...K.iTL.n.KEQ.PS.v....f.....ip.TNL.VS.Y.K..QK.											
Nra	YKALKNIVNQWLAQLPGKRHLNEKHLQ	LFCSHTEQILKNKQPAL	TWLISSNFINAKLL	TDTPRVFSDKGTHFY	SFYLLRDDIYQIPSLK	PDIVITHSRLIPFVKNDL	VKGVTVAEFSF					
Rofa	Ts..L..EE.m.K....Y..H..FH...HYv....r.I..P.V..Fva.....H....sF.....S.D.H.y...Q.Nv....D.....Q.....HHe.T..ia...I...											
Nra	DKPDYSIASIQNLIYQLKDKKYQDFLNEQLQ											
Rofa	E---.L...E.m.Rv.ee.f.AD.TK..T											

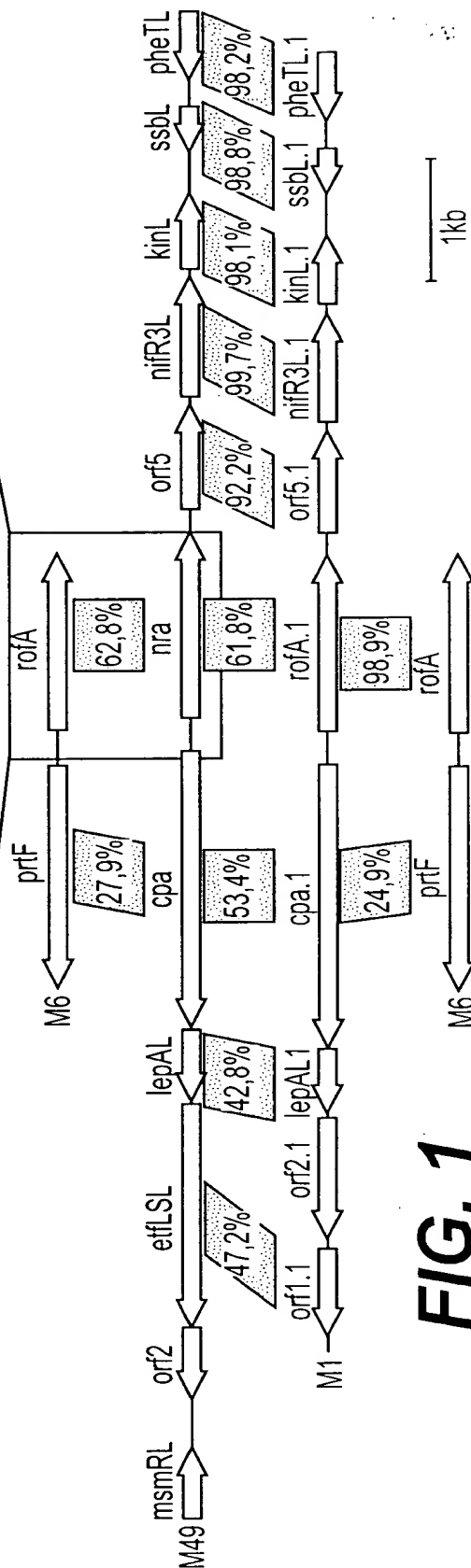
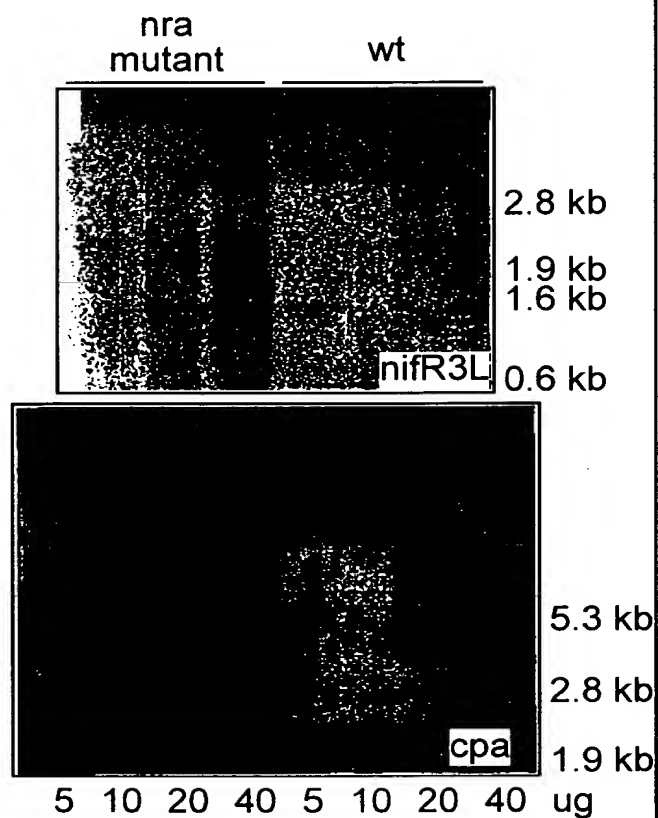
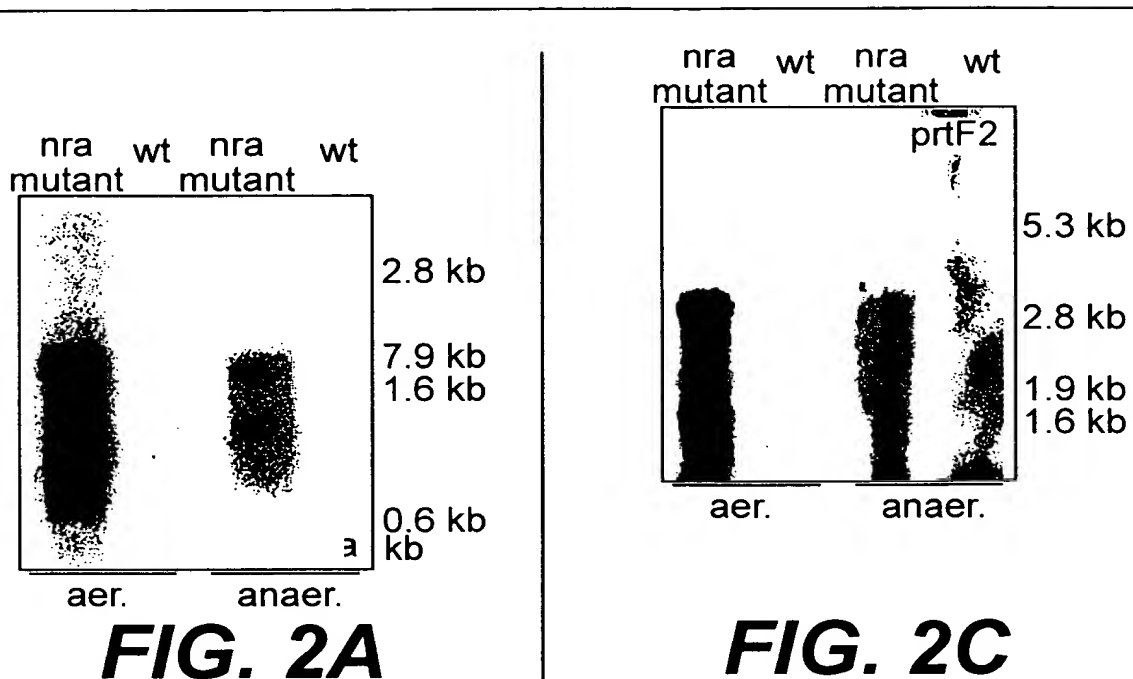


FIG. 1

TRANSCRIPT ANALYSIS OF SELECTED GENES
IN GAS wt AND *nra* MUTANT STRAINS



TRANSCRIPT ANALYSIS OF REGULATORY GENES IN GAS wt, mga AND nra MUTANT STRAINS

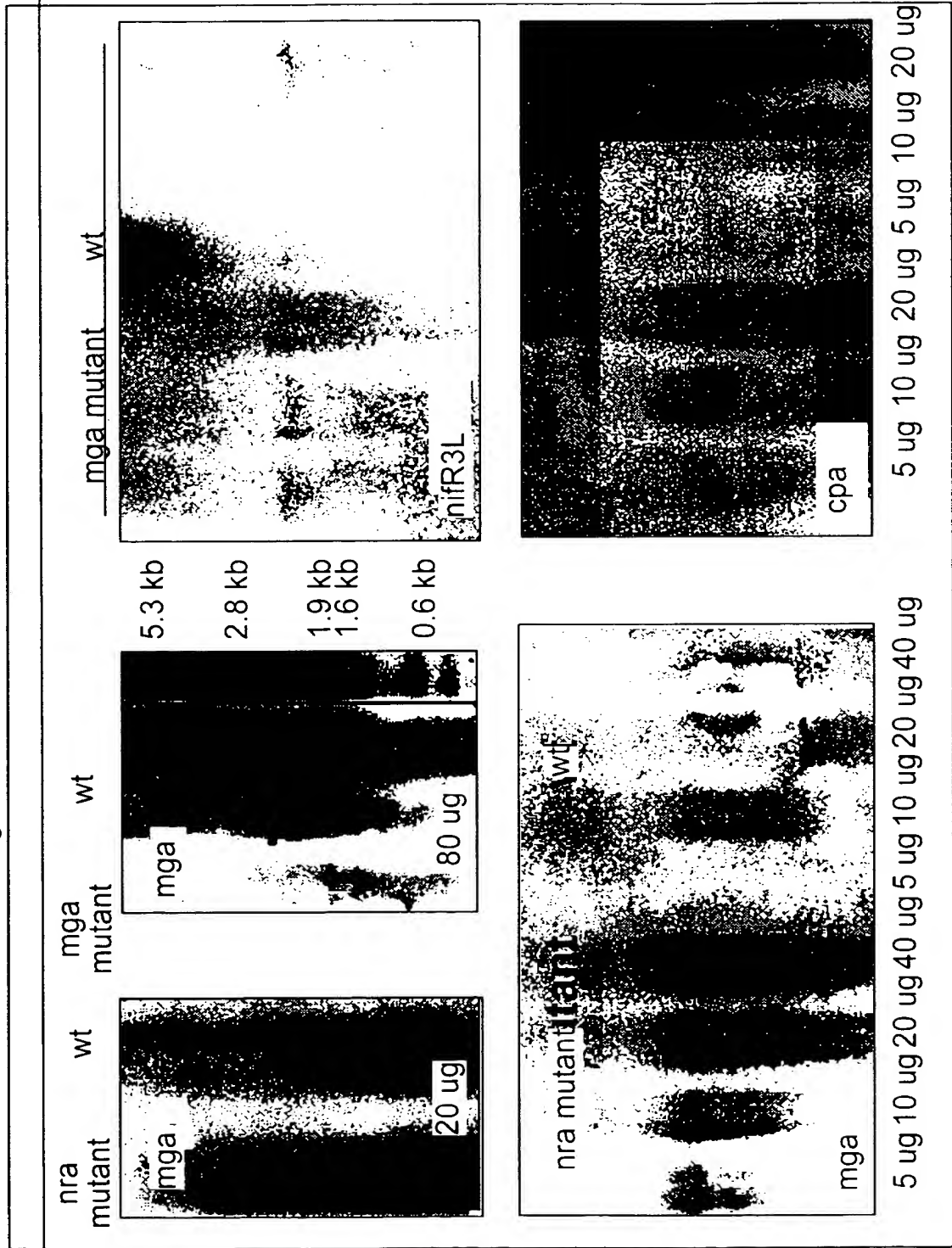


FIG. 3

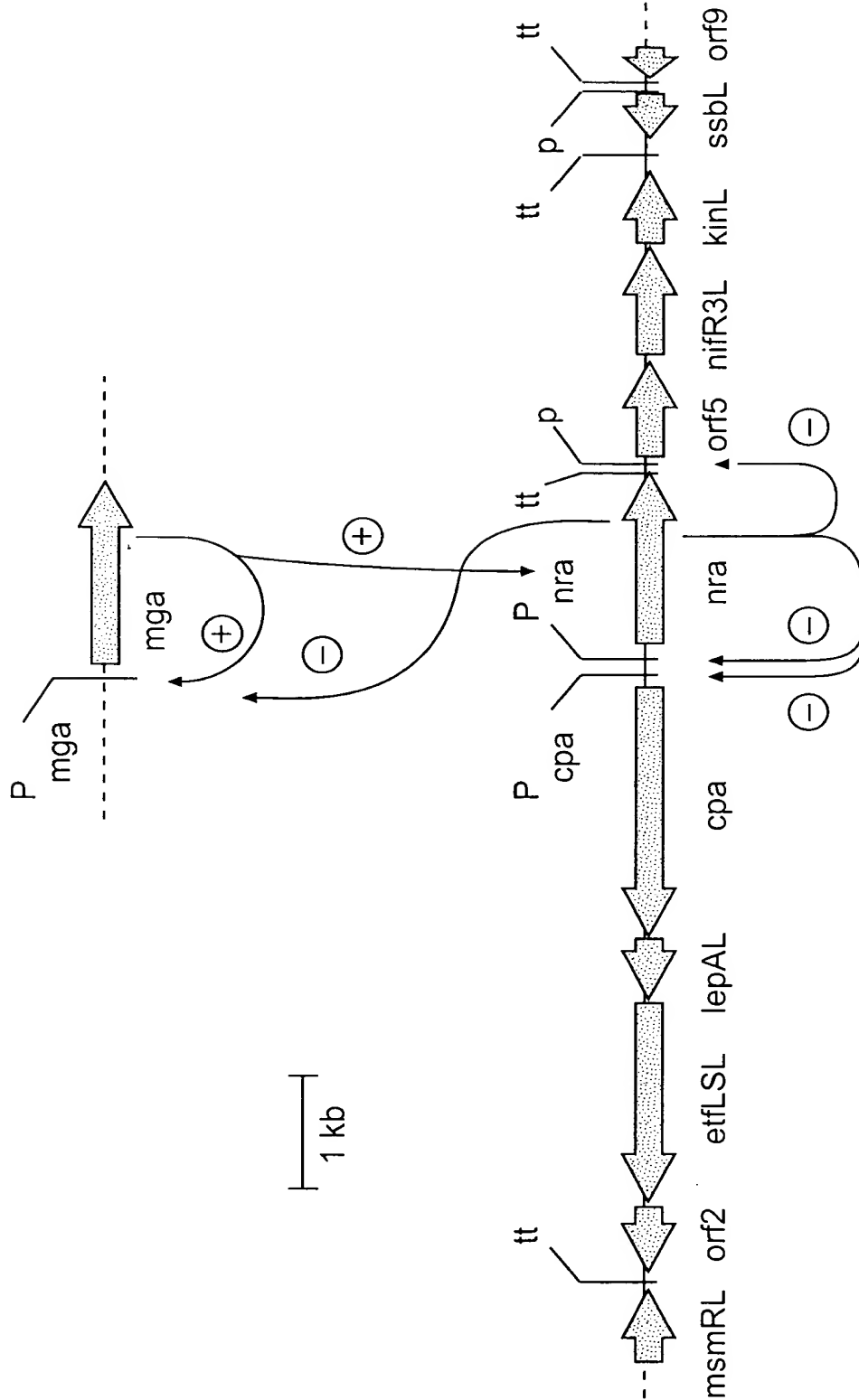


FIG. 4

Binding to immobilized human matrix proteins by GAS
wt and nra-mutant strains grown in/on THY-medium
to logarithmic/stationary growth phase in an
aerobic/anaerobic atmosphere

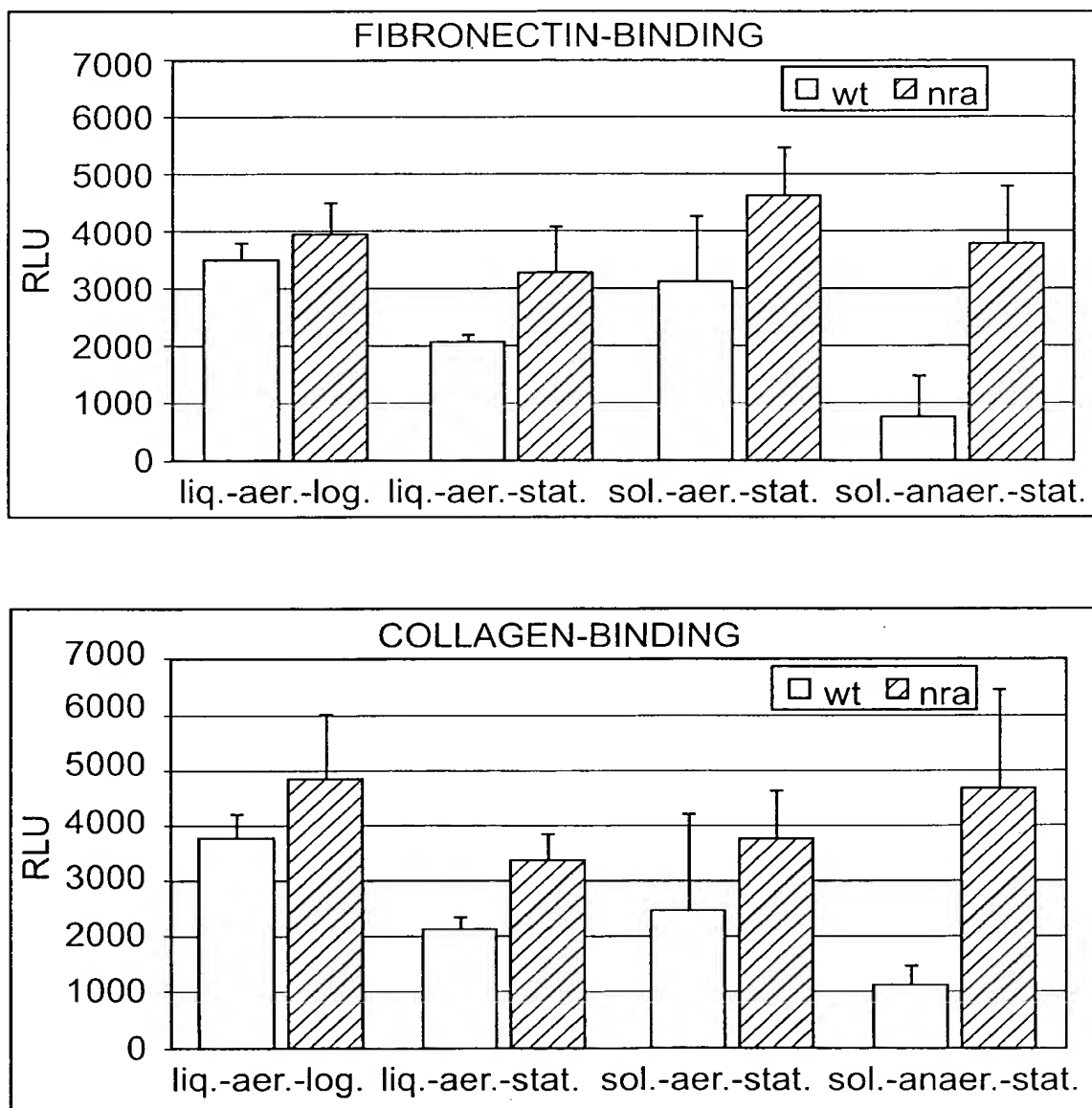


FIG. 5